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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/317,156	05/24/1999	CHING YU	50100-802	8724	
20277	7590 · 07/08/2003				
MCDERMOTT WILL & EMERY			EXAMINER		
600 13TH STI WASHINGTO	REET, N.W. DN, DC 20005-3096	·	HOM, SH	HOM, SHICK C	
			ART UNIŢ	PAPER NUMBER	
			2666		
			DATE MAILED: 07/08/2003	/	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/317,156	YU ET AL.					
Office Action Summary	Examiner	Art Unit					
	Shick C Hom	2666					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet	with the correspondence address	;				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may y within the statutory minimum of tivill apply and will expire SIX (6) Mo. cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this commun ABANDONED (35 U.S.C. § 133).	ication.				
1)⊠ Responsive to communication(s) filed on <u>15 Λ</u>	<i>May 2003</i> .						
2a) This action is FINAL . 2b) ☐ Th	is action is non-final.						
3) Since this application is in condition for allows closed in accordance with the practice under			rits is				
Disposition of Claims 4) Claim(s) 1-25 is/are pending in the application							
	4a) Of the above claim(s) <u>1-3,12 and 13</u> is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>11,14 and 15</u> is/are allowed.	William William Golfoldo	u					
6)⊠ Claim(s) <u>4-10 and 16-25</u> is/are rejected.							
7) Claim(s) is/are objected to.		•					
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers	. 0.00						
9) The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C	. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)		е				
14) Acknowledgment is made of a claim for domesti	c priority under 35 U.S.0	C. § 119(e) (to a provisional app	lication).				
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesting 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152					

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 5/15/03 have been fully considered but they are not persuasive.

Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 112

3. Claims 1, 4-10 and 17-25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Since a scheduler takes into account the element of time for scheduling, in claim 1 line 4-5 and claim 17 line 8 which recite a scheduler selectively assigning slots to ports is not clear as to whether it is reciting a scheduler selectively scheduling slot

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to the ports or an assignment means for selectively assigning slots to ports or how a scheduler selectively assigning slots to ports.

Claims 4-10 and 18-25 are rejected under 35 U.S.C. 112, second paragraph because they depend from rejected claims 1 and 17, respectively.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. This application currently names joint inventors. In

considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the

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examiner to consider the applicability of 35 U.S.C. 103° and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1, 4, 6, 8-10, and 17-19, 21, 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pei et al. in view of Daniel et al.

Pei et al. disclose nearly all the subject matter now claimed. Note col. 4 lines 8-33 which recite an interface for transmitting ATM cells over a link to a node of an ATM network using a programmable cell transmission scheduler which controls the scheduling of cells for transmission over the link including a scheduling table which is stored in memory, for use by the programmable cell transmission scheduler whereby the scheduling table includes a plurality of lines, each of which contains an index identifying one of a plurality of virtual path connections that may utilize the link and col. 5 lines 3-13 which recite the scheduler using one or more tables to assign traffic of a variety of types into respective cell transmit time slots clearly anticipate the scheduler for selectively assigning memory access slots to ports based on respective programmable information

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entries as in claims 1 and 17 and the slot assignment table memory as in claim 18. Further, col. 17 lines 12-23 which recite the scheduler assigns the cell transmit slot to the identified virtual circuit connection VCC clearly anticipate the scheduler assigning slots to ports as in claims 1, 17. Col. 8 line 60 to col. 9 line 4 which recite the cell memory interface including the memory used for storing ATM cells clearly anticipate the second memory for storing data packets and the external memory interface for transferring data packets between the network switch and the second memory as in claim 17. Col. 2 lines 5-39 which recite the user network interface using a single virtual path connection (VPC) identifier and various circuits being differentiated as different virtual circuit connections (VCCs) having different VCC identifiers, both internally in the interface whereby and the scheduler maintains a CBR table including a VCC identifier for each circuit subscribing to CBR service in the order that service is scheduled for the respective circuits clearly anticipate the use of a port operation code as in claims 4 and 19.

Pei et al. did not teach the use of an external controller for storing the programmable information entries into the table memory as in claims 1 and 17, the use of a continuously repeating

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sequence based on a sequence of memory access slot assignments as in claims 6, 21, the step of selecting slot assignments based on detected conditions as in claim 10, the first memory being an EEPROM as in claim 25, the assignment table memory being a RAM as in claims 8, 23, and being a group of registers as in claims 24, 9.

Daniel et al. teach that it is known to provide an ATMCSI/TU in which a programmable CPU tightly coupled to multiple hardwarecoprocessors whereby the interface between the CPU and the hardware coprocessors is defined by multiple data structures which provide bi-directional control and status signaling between the multiple hardware elements and the CPU as set forth at col. 6 lines 55-61 in the field of digital and multiplex communications for the purpose of freeing the APU from doing repetitive data manipulation tasks, while these tasks are performed by one or more hardware-implemented coprocessors using memory mapped data structures and linked lists of data which clearly anticipate the use of an external controller for storing the programmable information entries into the table memory as in claims 1 and 17. Col. 5 line 66 to col. 6 line 3 which recite the use of firmware in a specialized enhanced direct memory access module and Fig. 13 which shows the use of RAM clearly anticipate the first memory

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being an EEPROM as in claim 25, the assignment table memory being a RAM as in claims 8, 23, and being a group of registers as in claims 9, 24. Col. 3 lines 25-39 which recite that differing classes of service are provided to users of ATM systems whereby a cell is transmitted from a given connection on a regularly repeating time interval, perhaps one cell every couple of microseconds and another class of service is transmitted dependent on the video compression technique in use and the video image contents i.e., rate of video image change or frames per second clearly anticipate use of a continuously repeating sequence based on a sequence of memory access slot assignments as in claims 6, 21 and the step of selecting slot assignments based on detected conditions as in claim 10. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide for the use of an external controller for storing the programmable information entries into the table memory, writing the assignment configuration from the memory to an assignment configuration memory, the use of a continuously repeating sequence based on a sequence of memory access slot assignments, the step of selecting slot assignments based on detected conditions, the first memory being an EEPROM, the assignment table memory being a RAM, and

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being a group of registers as taught by Daniel et al. to the system of Pei et al. because Daniel et al. teach the desirable advantage of freeing the APU from doing repetitive data manipulation tasks, while these tasks are performed by one or more hardware-implemented coprocessors using memory mapped data structures and linked lists of data to increase speed for transmission and said increased speed for transmission being desirable to achieve more efficient system operation in Pei et al.

Allowable Subject Matter

- 6. Claims 5, 7, 20, and 22 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. Claims 11, 14, and 15 are allowed.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Libonati discloses an apparatus for providing telephonic mass announcement service and methods for use therein.

Baugh et al. disclose a digital loop switch for controlling data information having differing transmission characteristics.

9. Any response to this nonfinal action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (2600 Receptionist at (703) 305-4750).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shick Hom whose telephone number is (703) 305-4742. The examiner's regular

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work schedule is Monday to Friday from 8:00 am to 5:30 pm EST and out of office on alternate Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao, can be reached at (703) 308-5463.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

DANG TON REMANASI YRAMER

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June 27, 2003